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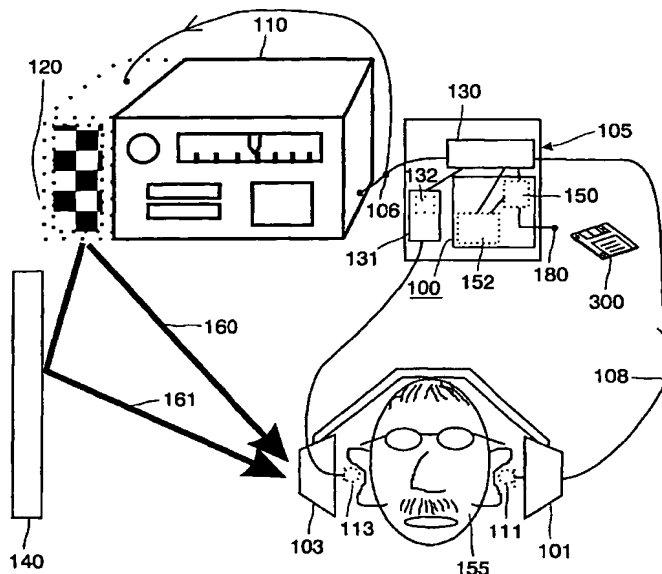
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[Continued on next page]

(54) Title: **SOUND REPRODUCTION SYSTEM, PROGRAM AND DATA CARRIER**



(57) Abstract: The sound reproduction system comprises a sound production means (101), e.g. a headphone loudspeaker, and an audio processor (105) capable of applying a first head related transfer function (130) to an input audio signal (106) from an audio signal source (110) and capable of delivering an output audio signal (108) to the sound production means (101). The audio processor (105) is arranged to apply the first head related transfer function (200) over a first frequency range and a second head related transfer function (202, 204) over a second frequency range. The second head related transfer function (202, 204) may be modeled by calculating means (152) or selected from a memory (150).

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